

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	10809176
Filing Date	2004-03-24
First Named Inventor	Egbert MUNDT
Art Unit	1648
Examiner Name	Mary Mosher
Attorney Docket Number	2003.002 US

U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5632989		1997-05-27	David B. Snyder	
	2	5871744		1999-02-16	Vikram N. Vakharia	
	3					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	1170302	EP	B1	2006-06-21	Adriaan A.W.M. Loon		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10809176
Filing Date	2004-03-24
First Named Inventor	Egbert MUNDT
Art Unit	1648
Examiner Name	Mary Mosher
Attorney Docket Number	2003.002 US

2	0887412	EP	B1	2003-10-15	E. Mundt	<input type="checkbox"/>
3	9526196	WO		1995-10-05	Vikram Vakharia	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	BAYLISS, C.D., et al. (1990). A comparison of the sequences of segment A of four infectious bursal disease virus strains and identification of a variable region in VP2. Journal of General Virology, 71:1303-1312.	<input type="checkbox"/>
	2	BAYYARI, G.R., et al. (1996). Pathogenicity Studies of an Arkansas Variant Infectious Bursal Disease Virus. Avian Diseases, 40:516-532.	<input type="checkbox"/>
	3	BOOT, H.J. et al. (2001). Comparison of RNA and cDNA transfection methods for rescue of infectious bursal disease virus. Journal of Virological Methods, 97:67-76.	<input type="checkbox"/>
	4	HEINE, H.G. et al. (1991). Sequence analysis and expression of the host-protective immunogen VP2 of a variant strain of infectious bursal disease virus which can circumvent vaccination with standard type I strains. Journal of General Virology, 72:1835-1843.	<input type="checkbox"/>
	5	JACKWOOD, D.J. et al. (1997). Identification and comparison of point mutations associated in classic and variant infectious bursal disease viruses. Virus Research, 49:131-137.	<input type="checkbox"/>
	6	KUNKEL, T.A. et al. (1987). Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection. Methods in Enzymology, 154:367-382.	<input type="checkbox"/>
	7	LIM, B.L. et al. (1999). Adaptation of Very Virulent Infectious Bursal Disease Virus to Chicken Embryonic Fibroblasts by Site-Directed Mutagenesis of Residues 279 and 284 of Viral Coat Protein VP2. Journal of Virology, 73(4), 2854-2862.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10809176
Filing Date	2004-03-24
First Named Inventor	Egbert MUNDT
Art Unit	1648
Examiner Name	Mary Mosher
Attorney Docket Number	2003.002 US

8	MUNDT, E. (1999). Tissue culture infectivity of different strains of infectious bursal disease virus is determined by distinct amino acids in VP2. Journal of General Virology, 80:2067-2076.	<input type="checkbox"/>
9	MUNDT, E. et al. (1995). Identification of a novel viral protein in infectious bursal disease virus-infected cells. Journal of General Virology. 76:437-443.	<input type="checkbox"/>
10	MUNDT, E. et al. (1996). Synthetic transcripts of double-stranded Birnavirus genome are infectious. Proceedings of the National Academy of Sciences, 93:11131-11136.	<input type="checkbox"/>
11	ROSENBERGER, J.K. et al. (1985). Sentinel Bird Survey of Delmarva Broiler Flocks. Proc. 20th Natl. Meeting on Poultry Health and Condemnations. 94-101.	<input type="checkbox"/>
12	SNYDER, D.B. et al. (1994). Active Cross-Protection Induced by a Recombinant Baculovirus Expressing Chimeric Infectious Bursal Disease Virus Structural Proteins. Avian Diseases. 38:701-707	<input type="checkbox"/>
13	SNYDER, D.B. et al. (1988). Differentiation of Infectious Bursal Disease Viruses Directly from Infected Tissues with Neutralizing Monoclonal Antibodies: Evidence of a Major Antigenic Shift in Recent Field Isolates. Avian Diseases. 32:535-539.	<input type="checkbox"/>
14	SNYDER, D.B. et al. (1994). Molecular Epidemiology of Infectious Bursal Disease Virus in the United States. Proceedings of the International symposium on infectious bursal disease and chicken infectious anaemia, Rauschholzhausen, Germany. 60-70	<input type="checkbox"/>
15	SNYDER, D.B. et al. (1992). Naturally occurring-neutralizing monoclonal antibody escape variants define the epidemiology of infectious bursal disease viruses in the United States. Archives of Virology. 127:89-101	<input type="checkbox"/>
16	TSAL, H.J. et al. (1992). Effect of Cell-Culture Passage on the Pathogenicity and Immunogenicity of Two Variant Strains of Infectious Bursal Disease Virus. Avian Diseases. 36:415-422.	<input type="checkbox"/>
17	VAKHARIA, V. et al. (1994). Molecular basis of antigenic variation in infectious bursal disease virus. Virus Research. 31:265-273.	<input type="checkbox"/>
18	van LOON, A.A.W.M. et al. (1994). Rapid Quantification of Infectious Bursal Disease (IBD) Challenge, Field or Vaccine Virus Strains. Proceedings of the International symposium on infectious bursal disease and chicken infectious anaemia, Rauschholzhausen, Germany. 179-187.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10809176
Filing Date		2004-03-24
First Named Inventor	Egbert MUNDT	
Art Unit	1648	
Examiner Name	Mary Mosher	
Attorney Docket Number	2003.002 US	

19	van LOON, A.A.W.M. et al. (2002). Alteration of amino acids in VP2 of very virulent infectious bursal disease virus results in tissue culture adaptation and attenuation in chickens. Journal of General Virology. 83:121-129.	<input type="checkbox"/>
20	WANG, M.-Y. et al. (2000). Self-Assembly of the Infectious Bursal Disease Virus Capsid Protein, rVP2, Expressed in Insect Cells and Purification of Immunogenic Chimeric rVP2H Particles by Immobilized Metal-Ion Affinity Chromatography. Biotechnology and Bioengineering. 67(1):104-111.	<input type="checkbox"/>
21	WANG, M.-Y. et al. Database EMBL 'Online! (July 20, 1999). Expression, Purification, and Protection of the Recombinant Infectious bursal disease virus structural protein (VP2) produced by insect cells. Database EMBL 'Online! AF109154.	<input type="checkbox"/>
22	YAO, K. et al. (1998). Generation of a Mutant Infectious Bursal Disease Virus That Does Not Cause Bursal Lesions. Journal of Virology. 72(4), 2647-2654.	<input type="checkbox"/>
23	HO, J.Y. et al. (1999). Expression, purification, and characterization of the infectious bursal disease virus -like particles produced by insect cells. Journal of the Chinese Chemical Society. 46:5 pp 743-750. Publisher: Chinese Chemical Society. ISSN: 0009-4536	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.